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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant'	s or age	ent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416
10589-33-228				
International application No.		ication No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/US04			26 March 2004 (26.03.2004)	27 March 2003 (27.03.2003)
		,) or national classification and IPC	
IPC(7): At Applicant	IPC(7): A01N 61/00; C12Q 1/00; G01N 33/566, 573 AND 574 and US CL: 435/4, 6, 7.2, 7.21, 41, 69.2, 91.3, 183; 514/1, 2			
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		TICS, INC.		
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 			
2.	This I	REPORT consists of	f a total of 📿 sheets, including this cover sheet	t.
3.	This r	eport is also accon	panied by ANNEXES, comprising:	
	a	(sent to the appli	cant and to the International Bureau) a total of	sheets, as follows:
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).			
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Surplemental Box.			
	ъ. Г	7	rnational Bureau only) a total of (indicate type	and number of electronic carrier(s))
containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4.	This r	eport contains indi	cations relating to the following items:	
	\boxtimes	Box No. I	Basis of the report	
		Box No. II	Priority	•
			Non-establishment of opinion with regard to nov applicability	velty, inventive step and industrial
	\boxtimes	Box No. IV	Lack of unity of invention	
			Reasoned statement under Article 35(2) with ndustrial applicability, citations and explanation	
		Box No. VI	Certain documents cited	
		Box No. VII	Certain defects in the international application	
		Box No. VIII	Certain observations on the international applica	tion
Date of submission of the demand Date of completion of this report				
26 October	2004 (26.10.2004)	11 November 2005 (1	1.11.2005)
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Facsimile N	Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Telephone No. (571) 272-1600			
orm PCT/IPEA/409 (cover sheet)(April 2005)				

-	International application No.
	PCT/US04/09574
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Box No. I Basis of the report	
the international application in the language in which it was filed. a translation of the international application into English, which is the language of a translation furnished for the purposes of: a translation of the international application (under Rules 12.4 and 23.1 (b)) publication of the international application (under Rules 12.4 (a)) international preliminary examination (under Rules 55.2 (a) and/or 55.3 (a)) unternational preliminary examination (under Rules 55.2 (a) and/or 55.3 (a)) with regard to the elements of the international application, this report is based on (replacement sheats which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished pages* NONE pages* NONE received by this Authority on pages* NONE received by this Authority on pages* NONE as amended (together with any statement) under Article 19 pages* NONE received by this Authority on pag	Box No. I Basis of the report
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International application No. INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY PCT/US04/09574 Box No. IV Lack of unity of invention In response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit: restricted the claims. paid additional fees. paid additional fees under protest, and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid neither restricted the claims nor paid additional fees 2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees. 3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is: complied with. not complied with for the following reasons: This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid. Group I, claim(s) 1-28 and 33-39, drawn to methods for identifying a compound that modulates fungal tRNA splicing endonuclease activity. Group II, claim(s) 29-32, 40 and 41, drawn to methods of preventing, treating, managing or ameliorating a fungal infection by administering an antiproliferative compound identified by the Group I method. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the methods of Groups I and II are distinctly different methods drawn to different method objectives. The antifungal compounds of Group II and derived from the Group I methods do not represent a "special" technical feature because antifungal compounds are known in the art. See e.g., WO 02/083953A1; WO 02/083837A1; and WO 01/25486A1. 4. Consequently, this report has been established in respect of the following parts of the international application: all parts the parts relating to claims Nos.

Form PCT/IPEA/409 (Box No. IV) (April 2005)

		ication No.	
PCT/U	JS04/09574		

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Staten	ent			
	Novelty (N)	Claims	1-28, 33-39	YES
			29-32, 40, 41	NO
	Inventive Step (IS)	Claims	NONE	YES
			1-41	NO
	Industrial Applicability (IA)		1-41	
			NONE	
	Continuation Sheet			

International application No. PCT/US04/09574

Supp	lemental	Box
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In case the space in any of the preceding boxes is not sufficient.

Continuation of:

V. 2. Citations and Explanations:

Claims 29-32, 40 and 41 lack novelty under PCT Article 33(2) as being anticipated by US 5,726,195 A (HILL et al.).

Hill et al. discloses small molecule antifungal (e.g. anti-yeast) compounds for treating microbial infections when administered to a host, (e.g., human). These compounds inhibit RNA enzymes (e.g. synthetases) and comprise structure within the scope of the presently claimed invention (e.g. see examples and patent claims). The ability to inhibit RNA splicing endonuclease is inherently present due to the ability of these compounds to bind tRNA. In any event, the claim is not structure-limited and the PTO lacks the finellities for making comparisons between prior at recompounds and the claimed prospective assay-derived compounds.

Claims 29-32, 40 and 41 lack novelty under PCT Article 33(2) as being anticipated by WO 01/25486 A1 (RANA).

Ram discloses assay-derived tRNA inhibiting (e.g., binding: see e.g. bottom of page 9-top of page 10; and claims, especially claims 1, 2, 28-30, 0-43) compounds within the scope of the presently claimed invention (e.g., claims 25-25) that are antifungal for use in treating fungal (e.g. yeast: see claims 47-48) infections (e.g., see page 10-11) when administered to humans. The ability to inhibit RNA splicing endouncleases is inherently present due to the ability of these compounds to bind RNA (e.g. RNA). In any event, the claim is not structure-limited and the PTO lacks the facilities for making comparisons between prior art compounds and the claimed prespective assays-derived compounds.

Claims 29-32, 40 and 41 lack novelty under PCT Article 33(2) as being anticipated by WO 02/083837 A1 (ALMSTEAD).

Almstead discloses assay-derived binding compounds (e.g. see pages 3-4; bottom of page 10-11) within the scope of the presently claimed invention (e.g. see pages 21-23; claim 5) that are antifugal for use in treating fingal (e.g., yeast) infections when a administered to humans. The ability to inhibit 19NA spicing endounclease is infectively present due to the ability of these compounds to bind RNA (e.g. RNA). In any event, the claim is not structure-limited and the PTO lacks the facilities for making comparisons between prior art compounds and the claimed prospective assay-derived compounds.

Claims 29-32, 40 and 41 lack novelty under PCT Article 33(2) as being anticipated by WO 02/083953 A1 (RANDO et al.).

Rando et al. disclose assay-derived RNA binding (e.g., RNA) compounds which effect RNA host cell factor complexes in vivo (e.g. RNA splicing; see page 10; bottom of page 12-page 13) which compounds are within the scope of the presently claimed invention (e.g. see claim 5) that are saftingal for use in treating fingal (e.g., yeast) infections when administered to humans. The ability to inhibit RNA splicing endonuclesses is inherently present due to the shifty of these compounds to bind RNA (e.g. RNA). In any event, the claim is not structure-limited and the PTO lacks the facilities for making comparisons between prior art compounds and the claimed

International application No. PCT/US04/09574

Supplemental Box

prospective assay-derived compounds.

Claims 1-41 lack an inventive step under PCT Article 33(3) as being obvious over WO 01/25486 A1 (RANA), WO 02/083837 A1 (ALMSTEAD), and/or WO 02/083953 A1 (RANDO et al.) in view of WANG et al., Nucleic Acids Research Vol. 18, No. 22, HYDE-DERUYSCHER et al., Chem. & Biol. Vol. 7, No. 1, and Li et al., Science Vol. 280 (47999).

The presently claimed invention is directed to identifying antifurgal compounds by screening (e.g., high throughput assays) compounds (e.g., library derived) for their ability to inhibit the endomoleclysis of fungal iRNA by inhibiting iRNA-tRNA splicing endomolecse binding, relative to a control.

Screening assays (e.g., high throughput assays) of single compounds or compound libraries for their ability to disrupt RNA (e.g., RNA) interactions (e.g. including splicing) in order to identify antifungal drug candidates is taught by the RANA, ALMSTEAD and/or RANDO reference whose teaching discussed above is hereby incorporated by reference in its entirety.

The RANA, ALMSTEAD and/or RANDO reference methods differ from the presently claimed invention by failing to explicitly teach the application of its methods to fixNA applicing endonuclease assays that cleave fixNA and dRNA splicing endonuclease. However, Lit et al. teach that the fixNA splicing pathway is analogous in mammals and other oreanisms (e.g., funic).

In this regard, WANO et al. teach an assay for endomucloslytic (RNA maturation, where inactivated microcoocal nuclease (reversible inhibitor) bound to radiolabeled pre-RNA, physically blocks the sites of endomoclease cleavage and prevents (RNA, processing activities present in Fraction III of spinach chloroplasts, presumably by substrate occlusion or "masking", where formation of an inactive micrococcal nuclease exgress substrate complex precludes utilization of the IRNA substrate by a second enzyme.

Additionally, the HYDE-DERUYSCHER et al. reference teaches that high throughput screening of "small molecule" compound libraries (e.g., phage) is ideal for screening "small molecule" enzyme inhibitors for a variety of different enzymes.

Accordingly, it would have been obvious to use tRNA splicing endonuclease assays in the high throughput screening methods of RANA, ALMSTEAD and/or RANDO, because these references specifically suggest screening small molecules libraries for compounds which disrapt RNA interactions, including splicing, and in light of the secondary reference teaching that (RNA splicing pathway in fungi is known and analogous; and the known teaching of tRNA splicing endonuclease inhibition; with the desirability of using high throughput screening of small molecular fibraries for screening enzyme binding compounds as drug candidates.